

Application No. 10/734,742  
Amendment dated June 11, 2007  
Reply to Office Action of March 23, 2007

### **Listing of Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**1.(currently amended)** An orthodontic appliance for attachment to a tooth, the appliance comprising:

a bracket having a ~~flexible base pad~~ that includes an inner central portion and an outer peripheral portion contiguous with and in surrounding relation to the inner central portion; and

a bonding structure configured to provide bonding of the bracket with adhesive to a tooth and compliantly attached to the bracket at a plurality of points around the perimeter of the outer peripheral portion of the ~~base pad~~ and substantially free from attachment to the bracket at the inner central portion of the ~~base pad~~ to provide compliant movement between the bracket and the bonding structure upon impact to the bracket, so as to resist transmission of impact from the bracket to the adhesive.

**2.(original)** The orthodontic appliance of claim **1** wherein the bonding structure includes a mesh.

Claims **3-6** (canceled)

**7.(original)** The orthodontic appliance of claim **4** wherein the outer peripheral portion comprises a metal sheet.

**8.(previously presented)** The orthodontic appliance of claim **7** wherein the metal sheet is a foil.

Claims **9-11** (canceled)

**12.** (previously presented) The orthodontic appliance of claim **1** wherein the bracket is a metal bracket.

**13.** (previously presented) The orthodontic appliance of claim **12** wherein the bonding structure is a wire mesh.

Claim **14** (canceled)

**15.** (previously presented) The orthodontic appliance of claim **12** wherein the bracket comprises a material selected from the group consisting of a metal, a ceramic and a plastic.

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**16.** (currently amended) An orthodontic appliance for attachment to a tooth, the appliance comprising:

    a bracket having a ~~flexible base pad attached thereto, the base pad~~ having thereon an outer peripheral portion and an inner central portion; and

    a mesh having an attachment to the outer peripheral portion around the perimeter thereof and encircling the inner central portion, and the mesh being substantially free from attachment to the inner central portion, the attachment providing compliant movement between the inner central portion and the mesh upon impact.

**17.**(original) The orthodontic appliance of claim **16** wherein the bracket is formed of a material selected from the group consisting of a metal, a ceramic and a plastic.

**18.**(currently amended) The orthodontic appliance of claim **16** wherein the bracket and the mesh are each formed of metal and the attachment includes a weld joining the mesh to the ~~base pad~~ around the outer peripheral portion.

**19.**(original) The orthodontic appliance of claim **16** wherein the outer peripheral portion is contiguous with the inner central portion.

Claim **20** (canceled)

**21.**(currently amended) The orthodontic appliance of claim **16** wherein the ~~pad is base includes a pad~~ formed of a metal sheet having thereon the outer peripheral portion surrounding the inner central portion on one side of the sheet;

    the bracket includes archwire support structure fixed to the pad on one side thereof opposite the inner central portion; and

    the attachment including a weld of the mesh to the outer peripheral portion of the pad.

**22.**(original) The orthodontic appliance of claim **21** wherein the pad is a foil.

Claim **23** (canceled).

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**24.**(currently amended) An orthodontic appliance for attachment to a tooth, the appliance comprising:

a bracket;

a bonding structure for bonding the appliance to a tooth with adhesive;  
an external surface extending from the bonding structure bracket and exposed to impact from an external object against the external surface; and  
an elastically resilient interface on the appliance between the bonding structure and the external surface bracket to absorb impact between the tooth and the object.

Claims **25-56** (canceled)

**57.**(new) The orthodontic appliance of claim **24** wherein the interface comprises an elastically resilient metal pad interconnecting the bracket and the bonding structure.